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ABSTRACT

After digital modulation by digital modulation section 101, OFDM symbols (first OFDM symbol group) converted to parallel by S/P conversion section 102 are output to mapping section 103, where of a plurality of subcarriers on which the first OFDM symbol group is superimposed, the OFDM symbols superimposed on a predetermined number of subcarriers are set to "0" to expand thereby the OFDM symbol space. As many OFDM symbols as those of the first OFDM symbol group are selected in ascending order of peak power from among symbol patterns in this space, the first OFDM symbol group is associated with this selected OFDM symbol, this associated and selected OFDM symbol is output, this selected OFDM symbol is subjected to an inverse fast Fourier transform by IFFT section 104 and then transmitted.